

ABSTRACT

--A method is provided for generating an image of a subject object to show a predetermined part thereof. The subject object is positioned so that a selected part of the subject object is positioned in a predetermined direction relative to the calibration pattern. Images of the subject object and calibration pattern from different relative recording positions and/or orientations are recorded. Data defining the recorded images is processed to calculate the relative positions and orientations at which the images were recorded by comparing the calibration pattern in the images with stored data defining the calibration pattern. Data defining a three-dimensional computer model of the subject object relative to the stored calibration pattern is generated using the calculated positions and orientations. Data defining an image of the three-dimensional computer model showing the selected part of the subject object is generated using a viewing camera defined relative to the stored calibration pattern.--